

In the Abstract:

ABSTRACT OF THE DISCLOSURE

~~Thin film LED comprising a current expansion structure~~

In a A thin-film LED comprising an active layer (7) made of a nitride compound semiconductor, which emits electromagnetic radiation (19) in a main radiation direction (15)[[, a]]. A current expansion layer (9)[[, which]] is disposed downstream of the active layer (7) in the main radiation direction (15) and is made of a first nitride compound semiconductor material, -a ~~main area (14), through which the~~ The radiation emitted in the main radiation direction (15) is coupled out through a main area (14), and a first contact layer (11, 12, 13) is arranged on the main area (14). ~~the~~ The transverse conductivity of the current expansion layer (9) is increased by formation of a two-dimensional electron gas or hole gas. The two-dimensional electron gas or hole gas is advantageously formed by embedding at least one layer (10) made of a second nitride compound semiconductor material in the current expansion layer (9).

Significant Figure: Figure 1A